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## Document Number 31

Entry 31 of 32

File: DWPI

Apr 15, 199

DERWENT-ACC-NO: 1997-235074

DERWENT-WEEK: 199721

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TITLE: Therapeutic electromagnetic treatment method - applying cooling gel to treatment area and directing incoherent pulsed light output to treatment area

INVENTOR: ECKHOUSE, S

PATENT-ASSIGNEE: ESC MEDICAL SYSTEMS LTD[ESCMN]

PRIORITY-DATA: 1995US-0477479 (June 7, 1995) , 1992US-0964210 (October 20, 1992) , 1995US-0383509 (February 3, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5620478 A	April 15, 1997	N/A	018	A61N 005/06

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
US 5620478A	CIP of	1992US-0964210	October 20, 1992
US 5620478A	CIP of	1995US-0383509	February 3, 1995
US 5620478A	N/A	1995US-0477479	June 7, 1995
US 5620478A	CIP of	US 5405368	N/A

INT-CL (IPC): A61 N 5/06

RELATED-ACC-NO: 1993-322536;1996-355927 ;1997-101610

ABSTRACTED-PUB-NO: US 5620478A

BASIC-ABSTRACT: The method uses a flashlamp (14) to provide a pulsed light output to be directed to the treatment area (21) through a flexible or rigid light guide. The light is incoherent, its angle or spectrum is controlled. An interference filter is at the end of the light guide. A dye is dissolved in the light guide, and the light guide is made of several optical fibers (18) fused together at their ends.

The lamp is mounted in a housing (12) with a reflector (16), and optical filter (18) mounted near the opening of the housing. An iris (20) is mounted with the opening. The pulse width of the light output is controlled and focussed so the power density of the light is controlled. The light is filtered to control the light spectrum.

USE/ADVANTAGE - For treatment of differences in skin pigmentation or structure of skin, vascular disorders under skin, port wine stains, telangiectasias, leg veins, cherry and spider angiomas also for lithotripsy and blockage removal when coupled to optical fibre. Wide range of wave lengths selectable for different skin conditions, provides control of thermal depth penetration by varying pulse width. Simple, inexpensive appts.

CHOSEN-DRAWING: Dwg.1/19

DERWENT-CLASS: P34 S05 V07 X26

EPI-CODES: S05-A03A9; V07-N03; X26-G;

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L2

1 5755751/PN AND REMOVAL

=> d kwic

US PAT NO: 5,755,751 [IMAGE AVAILABLE]

L2: 1 of 1

SUMMARY:

BSUM(7)

The effectiveness of lasers for applications such as tattoo **removal** and **removal** of birth and age marks is diminished because lasers are monochromatic. A laser of a given wavelength may be effectively. . .

SUMMARY:

BSUM(11)

In addition to being used for treating skin disorders, lasers have been used for invasive medical procedures such as lithotripsy and **removal** of blood vessel blockage. In such invasive procedures laser light is coupled to optical fibers and delivered through the fiber. . . of lasers discussed above with respect to laser skin treatment are present. Accordingly, a treatment device for lithotripsy and blockage **removal** utilizing a flashlamp would be desirable.

DETDESC:

DETD(34)

The . . . However, using a flashlamp rather than a laser in invasive treatments provides advantages as well. Procedures such as lithotripsy or **removal** of blood vessel blockage may be performed with a flashlamp.

For coagulation blood in  
blood vessels

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## Document Number 30

Entry 30 of 32

File: DWPI

Aug 13, 199

DERWENT-ACC-NO: 1997-395416

DERWENT-WEEK: 199919

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TITLE: Depilation method using pulsed electromagnetic radiation - uses pulses of incoherent electromagnetic energy with predetermined delay between pulses in range of 0.1 to 100 micro-seconds

INVENTOR: BACHRACH, H; ECKHOUSE, S ; ECHOUSE, S

PATENT-ASSIGNEE: ESC MEDICAL SYSTEMS LTD[ESCMN]

PRIORITY-DATA: 1996US-0605321 (February 9, 1996) , 1995US-0412519 (March 29, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 788814 A2	August 13, 1997	E	009	A61N 005/06
AU 9712295 A	August 14, 1997	N/A	000	A61B 017/41
JP 09215695 A	August 19, 1997	N/A	007	A61B 017/36
CA 2195294 A	August 10, 1997	N/A	000	A45D 026/00
KR 97061215 A	September 12, 1997	N/A	000	A61B 017/41
US 5885273 A	March 23, 1999	N/A	000	A61N 005/06

DESIGNATED-STATES: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
EP 788814A2	N/A	1997EP-0300804	February 7, 1997
AU 9712295A	N/A	1997AU-0012295	January 23, 1997
JP09215695A	N/A	1997JP-0025618	February 7, 1997
CA 2195294A	N/A	1997CA-2195294	January 16, 1997
KR97061215A	N/A	1997KR-0003831	February 6, 1997
US 5885273A	CIP of	1995US-0412519	March 29, 1995
US 5885273A	N/A	1996US-0605321	February 9, 1996
US 5885273A	CIP of	US 5683380	N/A

INT-CL (IPC): A45 D 26/00; A61 B 17/36; A61 B 17/41; A61 N 5/06

RELATED-ACC-NO: 1996-444669

ABSTRACTED-PUB-NO: EP 788814A

BASIC-ABSTRACT: A band-pass electromagnetic filter (307) is located between the source and the skin and the source is located within a housing (302) that includes coupler (310) capable of being disposed

to direct the incoherent electromagnetic energy to the surface of the tissue. The source includes a flashlamp (301) and a pulse generating circuit for generating the required pulses.

Incoherent electromagnetic energy is produced and coupled to area of surface of tissue that includes hair follicle. Filters are used to provide energy wavelength selected in accordance with colour of hair. Gel (103) is applied to surface of tissue to cool it. The energy heats the hair and hair follicle, without heating the tissue.

ADVANTAGE - Energy provided by coupler has range of angular divergences, and can be filtered.

ABSTRACTED-PUB-NO: US 5885273A

EQUIVALENT-ABSTRACTS: A band-pass electromagnetic filter (307) is located between the source and the skin and the source is located within a housing (302) that includes coupler (310) capable of being disposed

to direct the incoherent electromagnetic energy to the surface of the tissue. The source includes a flashlamp (301) and a pulse generating circuit for generating the required pulses.

Incoherent electromagnetic energy is produced and coupled to area of surface of tissue that includes hair follicle. Filters are used to provide energy wavelength selected in accordance with colour of hair. Gel (103) is applied to surface of tissue to cool it. The energy heats the hair and hair follicle, without heating the tissue.

ADVANTAGE - Energy provided by coupler has range of angular divergences, and can be filtered.

CHOSEN-DRAWING: Dwg.1/4

DERWENT-CLASS: P24 P31 P34 S05

EPI-CODES: S05-A04;

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